Appl. No. 10/561,654 Filed: Apr. 11, 2006

## In the Claims:

1. (Original) A radiolabeled growth hormone secretagogue comprising at least one compound of the formula:

$$\begin{array}{c|c}
O & O \\
N & O \\
N & O \\
R^1 & NH_2 \\
N & R^2 & R^3 & NH_2 \\
O & S & R^4 & R^5 & R^6
\end{array}$$

**MsOH** 

wherein R<sup>1</sup> to R<sup>6</sup> are independently of each other H or T, and wherein at least one of R<sup>1</sup> to R<sup>6</sup> are T.

- 2. (Original) The radiolabeled growth hormone secretagogue of claim 1, wherein the specific activity of the radiolabeled growth hormone secretagogue is between 86.4 Ci/mmole and 115.2 Ci/mmole.
- 3. (Original) The radiolabeled growth hormone secretagogue of claim 2, wherein the specific activity of the radiolabeled growth hormone secretagogue is 97.5 Ci/mmole.

## 4-7. (Cancelled)

8. (Previously Amended) A method of identifying a cellular receptor as a growth hormone secretagogue receptor comprising contacting a host suspected to express a growth hormone secretagogue receptor with the radiolabeled growth hormone secretagogue of claim 1 and determining whether binding has occurred.

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9. (Previously Amended) A method for identifying a compound that can bind to a growth hormone secretagogue receptor comprising contacting said compound with a host expressing a growth hormone secretagogue receptor in the presence of the radiolabeled growth hormone secretagogue of claim 1 and monitoring whether the compound influences the binding of said radiolabeled growth hormone secretagogue to the growth hormone secretagogue receptor.

- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)